

US LHC Accelerator Project		Baseline Change Request
BCR Number	35	
WBS	1.5.1 US LHC Project Management	
Title	DFBX Fabrication Study	
Change Control Level	2	
Originator	J. Strait	
Date	19 September 2001	

Description of change

This BCR is to authorize budget within the US LHC Accelerator Project Management Office (PMO) to conduct a fabrication study for the IR Feedboxes (DFBX). The study will be performed by two commercial vendors with extensive experience in the design and fabrication of complex cryogenic equipment, under the direction of the PMO, and with the support of Fermilab and LBNL engineering. Specific activities covered by this BCR are:

- 1) Participation of Fermilab cryogenic engineers in the preparation of the specification for the fabrication study, discussions with and visits to the vendors during the course of the study, and review of the reports from the vendors.
- 2) Support from the Fermilab Design and Drafting Department in printing the drawing packages from electronic files provided by LBNL.
- 3) The cost of the contracts for the fabrication study with two experienced cryogenic equipment manufacturers.

Reason for change

This study is being carried out as part of a PMO's review of the DFBX design, fabrication plan, and cost estimate to complete.

Impact on other sub-systems

Some additional effort will be required from LBNL engineers and designers working on WBS 1.3.1 IR Feedboxes, to provide technical information, including electronic drawing files, to support this study. Effort will be made to minimize this impact, principally to not distract LBNL from their task of completing the DFBX design.

Impact on cost

The estimated cost in FY2001 dollars is shown in Table 1. This work is expected to be completed within the next 2 months, and escalation is not applied. A new WBS element 1.5.1.4, with associated charge code, will be created. Travel expenses to support this work will be covered under the existing PMO travel budget (WBS 1.5.1.2).

US LHC Accelerator Project		Baseline Change Request
BCR Number	35	
WBS	1.5.1	US LHC Project Management
Title	DFBX Fabrication Study	
Change Control Level	2	
Originator	J. Strait	
Date	19 September 2001	

Table 1. Estimated Cost of DFBX Fabrication Study.

WBS				Item description	Unit of Measure	No. of units	MATERIAL		LABOR					G&A	Totals (FY01\$)	
							FY01 \$ per unit	Total M&S \$	Labor type	hrs/ unit	\$ per hour	\$ per unit	Total labor \$		Direct Cost	with G&A
1	5	1	4	DFBX Fabrication Study				\$ 20,000					\$ 7,558	\$ 5,543	\$ 27,558	\$ 33,102
1	5	1	4	1 Engineering Support	FTE-wk	3		\$ -	FET	35.0	\$ 58.27	\$ 2,039	\$ 6,118	\$ 1,881	\$ 6,118	\$ 7,999
1	5	1	4	2 Drafter Support	FTE-wk	1		\$ -	FDR	35.0	\$ 41.14	\$ 1,440	\$ 1,440	\$ 443	\$ 1,440	\$ 1,883
1	5	1	4	3 Fabrication Study Contract	ea	2	\$ 10,000	\$ 20,000					\$ -	\$ 3,220	\$ 20,000	\$ 23,220

Impact on schedule

None.


Other impacts (ES&H, etc.)

None.


Change Control Board recommendation (if required)

US LHC Accelerator Project		Baseline Change Request
BCR Number	35	
WBS	1.5.1 US LHC Project Management	
Title	DFBX Fabrication Study	
Change Control Level	2	
Originator	J. Strait	
Date	19 September 2001	

Approvals


WBS Level 3 Manager


20 Sep 01
Date


Laboratory Project Manager

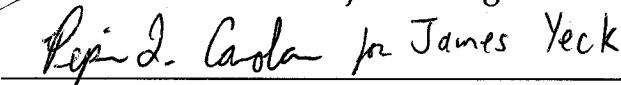
20 Sep 01
Date


Change Control Board Chair

20 Sep 01
Date


US LHC Accelerator Project Manager

20 Sep 01
Date


DOE LHC Project Manager

9/20/01
Date

Director, DOE Division of High Energy Physics

Date